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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635,665	08/07/2003	Hiraku Murayama	029650-144	8895
	7590 05/24/200 INGERSOLL & ROOI	EXAMINER		
POST OFFICE BOX 1404			HOEKSTRA, JEFFREY GERBEN	
ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER
			3736	
	•	·	MAIL DATE	DELIVERY MODE
			05/24/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	·	Application No.	Applicant(s)
	Office Action C	10/635,665	MURAYAMA ET AL.
	Office Action Summary	Examiner	Art Unit
)	•	Jeffrey G. Hoekstra	3736
eriod fo	The MAILING DATE of this communication ap or Reply	opears on the cover sheet w	ith the correspondence address
WHIC - Exte after - If NC - Failu Any	CORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING [Persisted of the communication of the may be available under the provisions of 37 CFR 1. It is SIX (6) MONTHS from the mailing date of this communication of period for reply is specified above, the maximum statutory period use to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION (136(a). In no event, however, may a red will apply and will expire SIX (6) MON te, cause the application to become AB	CATION.  reply be timely filed  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).
Status			
1)⊠	Responsive to communication(s) filed on 27 I	February 2007.	
2a)⊠	This action is <b>FINAL</b> . 2b) Thi	is action is non-final.	
3)	Since this application is in condition for allowa	ance except for formal matt	ers, prosecution as to the merits is
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	). 11, 453 O.G. 213.
)isposit	ion of Claims		
4)⊠	Claim(s) 1-21 and 23-28 is/are pending in the	e application.	
	4a) Of the above claim(s) 4-11 is/are withdraw	vn from consideration.	
5)	Claim(s) is/are allowed.		
	Claim(s) <u>1-3,12-21 and 23-28</u> is/are rejected.	•	
7)	Claim(s) is/are objected to.		
8)[	Claim(s) are subject to restriction and/	or election requirement.	
Applicat	ion Papers		
9)[	The specification is objected to by the Examin	er.	
10)	The drawing(s) filed on is/are: a) ac	cepted or b) ☐ objected to	by the Examiner.
٠	Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	` '
. 441	Replacement drawing sheet(s) including the correct	,	• •
וויי	The oath or declaration is objected to by the E	examiner. Note the attached	Office Action or form P1O-152.
riority i	under 35 U.S.C. § 119		
12)	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	119(a)-(d) or (f).
a)	☐ All b)☐ Some * c)☐ None of:		
	1. Certified copies of the priority documer		
	2. Certified copies of the priority documer		· ·
	3. Copies of the certified copies of the price	•	received in this National Stage
* (	application from the International Burea	• • • • • • • • • • • • • • • • • • • •	raceived
	See the attached detailed Office action for a lis	a or the certified copies not	receiveu.
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•			•

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date \_\_\_\_\_.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date
5) Notice of Informal Patent Application
6) Other:

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## **DETAILED ACTION**

#### **Notice of Amendment**

1. In response to the amendment filed on 2/27/2007, amended claim(s) 1 and 24, and new claims 28 is/are acknowledged. The previous rejections of claims 1-3, 12-21, and 23-28 are withdrawn. The following new and reiterated grounds of rejection are set forth:

### Election/Restrictions

- 2. This application contains claims 4-11 drawn to an invention nonelected with traverse in Paper No. 20051123. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.
- 3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Claim Rejections - 35 USC § 102

- 4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 5. Claims 1-3, 12, 16-18, 23, and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Uchino et al (US 6,001,068, hereinafter Uchino).
- 6. Uchino discloses a guidewire, comprising:

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a distally disposed reshapeable and non-superelastic metallic first wire (112,66,81)
 (the gold or platinum positively recited in column 6 lines 15-19, column 12 lines 29-33,column 15 lines 36-42) capable of being plastically deformed to maintain a desired shape;

- an intermediately disposed pseudo-elastic alloy second wire (A,61) (column 3 line 46
   column 4 line 6) having a smaller elastic modulus than the first wire;
- a proximally disposed third wire (B,62) (column 4 lines 7-25) having a larger elastic modulus than the second wire (the stainless steel for example positively recited in column 4 lines 7-25);
- wherein said first and second wires have a common longitudinal axis, are coaxial, and are joined by spot or butt-resistance welding (column 7 lines 19-67 and column 8 lines 16-22) (as best seen in Figure 12) of the end faces of the two wires in a nearly perpendicular orientation with respect to the longitudinal axis;
- wherein the second and third wire are joined to each other by spot or butt-resistance welding (column 7 lines 19-67 and column 8 lines 16-22) as best seen in Figures 1-4, 9-15, and 17-19; and
- wherein the guidewire has a taper extending from the proximal end to the distal end,
   as best seen in Figures 9, 14, and 17.

# Claim Rejections - 35 USC § 103

7. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

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the invention as specified in the claim(s).

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8. Claims 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchino et al. Uchino et al discloses the claimed invention but does not disclose expressly the first wire ranging in length from 10 to 1,000 mm. It would have been an obvious matter of design choice to a person of ordinary skill in the art to modify the first wire of the guidewire as taught by Uchino et al with the claimed length range, because Applicant has not disclosed that disclosed length provides an advantage, is used for a particular purpose, or solve a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with the distal most wire as taught by Uchino et al, because it configures the distal region of a guidewire for navigating tortuous vasculature and since it appears to be an arbitrary design consideration which fails to patentably distinguish over Uchino et al. Therefore, it would have been an obvious matter of design choice to modify Uchino et al to obtain

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9. Claims 19-21 and 24-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchino in view of Palermo et al (US 5,769,796, hereinafter Palermo). Uchino discloses the claimed guidewire, as set forth above, except for explicitly disclosing configuring the guidewire with a spiral coil covering at least the distal end portion of the first wire, wherein the welded portion between first and second wires is located distal or proximal the proximal end of the spiral coil. Palermo teaches configuring a guidewire (100) with a spiral coil of wire (132) covering at least the distal end portion of a first wire, wherein a welded portion (128) between a first (126) and a second wire (106) is located distal or proximal the proximal end of the spiral coil (as

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best seen in Figures 5A and 5B). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the guidewire as taught by Uchino, with the guidewire as taught by Palermo for the purpose of configuring the mechanical properties (i.e. flexibility, elastic modulus, etc...) of a guidewire for navigating tortuous vasculature.

## Response to Arguments

10. Applicant's arguments with respect to claims 1-3, 12-21, and 23-28 have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey G. Hoekstra whose telephone number is (571)272-7232. The examiner can normally be reached on Monday through Friday, 8:00 a.m. to 5:00 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max F. Hindenburg can be reached on (571)272-4726. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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